

2011/12
**Air-Conditioning Tools
& Consumables Catalogue**

keeping your customers cool



ناز تعمل مع الشرق الاوسط و شمال افريقيا

ناز شركة مقرها المملكة المتحدة تعمل مع عدة دول في الشرق الاوسط في مجال التكييف والتبريد .

نحن نقوم بتوريد منتجات لافضل المصنعين مثل المبردات , قطع غيار المبردات - المكثفات و المبخرات مفاتيح الضغط الخ . الى قطاعات تصنيع النفط والغاز و البتروكيماويات , الفولاذ , والبناء و الصناعات المشابهة .

على مر السنين قمنا ببناء سمعة طيبة على اثر تقديم خدماتنا بكفاءة عالية و تقديم الدعم المطلوب للزبائن .

نحن نفخر باننا نقدم خدمات سريعة و منافسة و فريق التصدير عندنا يقدم اجابات سريعة و دقيقة في حالة وجود اى استعلام او طلب عروض من الزبائن .

ناز ايضا متخصصة في توريد معدات التكييف للمركبات لمنطقة الشرق الاوسط , كمعدات الصيانة الاوتوماتيكية , مضخات التفريغ , الموازين , اجهزة استرجاع الغاز , مقاييس الضغط , اجهزة القياس و العدة اليدوية .

هنا في المملكة المتحدة نحن في ناز مركز تدريب معتمد من معهد سيتي اند جيلدرز , يمكننا توفير التدريب و الاقامة لكل من يرغب في التدريب في المملكة المتحدة , و تتراوح مدة التدريب ما بين اسبوع او اكثر حسب الدورة . كما يمكننا توفير التدريب في اي دولة من دول الشرق الاوسط عند الطلب .

Naas Ltd est une dynamique à croissance rapide société britannique, spécialisée dans l'automobile pièces de climatisation et de l'équipement, offrant une large gamme d'équipements, d'outils, de consommables et de la formation.

CLIMATISATION AUTOMOBILE

Nous sommes votre «guichet unique» pour tous vos besoins de climatisation automobile. Notre gamme de produits comprend l'équipement, outils, pièces et consommables. Nous sommes spécialistes dans la fourniture et le support de test et de produits novateurs de services pour l'entretien de climatisation de véhicule et de réparation.

Plein de conseils techniques et soutien à la formation sur la climatisation sera assurée et notre concept assure que vous allez vendre plus de services avec le moins d'impact sur le temps de votre technicien.

FORMATION

Ici, à NAAS nous sommes une ville et centre de formation guildes. Offrant de manutention sécuritaire du réfrigérant certificat »et des cours pour débutants et formation avancée sur la climatisation mobile, pour plus de détails contactez-nous sur training@naas.co.

D'EXPORTATION DE SERVICES

Nos spécialistes de la division à l'exportation dans l'exportation des refroidisseurs York et des unités de traitement d'air ainsi que pièces de rechange pour unités de support à nos partenaires au Moyen-Orient & Afrique du Nord. Naas maintenant la diversité et fournissent les machines, équipements et outils pour l'industrie de la construction, le gaz et la pétrochimie, du pétrole et des industries connexes.



Naas Ltd is a dynamic fast growing UK based company, specialising in automotive air-conditioning parts and equipment, offering a large range of equipment, tools, consumables and training.

AUTOMOTIVE AIR CONDITIONING

We are your "one stop shop" for all your Automotive Air conditioning requirements. Our product range encompasses equipment, tools, parts and consumables. We are specialists in the supply and support of innovative test and service products for vehicle air conditioning maintenance and repair.

Full technical advice and training support on air conditioning will be provided and our design concept ensures that you will sell more services with the least impact on your technician's time.

TRAINING

Here at NAAS we are a City & Guilds training centre. Offering 'Safe Handling Refrigerant certificate' and courses for beginners and advanced training on Mobile air conditioning, for more details contact us on training@naas.co.

EXPORT SERVICE

Our export division specialise in the export of York chillers and Air handling units as well as spare parts for Carrier Units to our partners in the Middle East & North Africa . Naas now diversity and supply machinery, equipment and tools to construction industry, gas and petrochemical, oil and allied industries.

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Auto Service Station Equipment

R1234yf & R134a

150
centocinquanta

150 Centocinquanta

- N13003061

A single unit compatible for R134a and R1234yf

- Completely automatic unit
- Database on USB pen (can be updated by the operator)
- "FULL-AUTO" function: by selecting the vehicle model, the unit performs a complete service by itself
- "AUTO-CLEAN" function: can also be used with hybrid vehicles
- "A/C FLUSHING" function for the A/C system flushing
- 6 electronic scales (Refrigerant – Oil discharge – PAG oil charge – POE oil charge - UV PAG additives charge - UV POE additives charge)
- Distillation with automatic control
- Compressor with High Recovery Performance System able to recover more than 95% of the refrigerant in the A/C system
- Automatic discharge of non condensable gases
- LOW and HIGH quick couplers
- Integrated ambient temperature probe
- Scale protection automatic system
- Replacements of filters and vacuum pump oil are controlled automatically
- Bottle pressure control
- Inner ventilation system
- ABS cover with large support surface and ergonomic handle
- Manufactured in conformity with CEI EN 60079-10 (CEI 31-30) regulations

Refrigerants:
R1234yf - R134a

Recovery rate:
300 g/min

Pump swept volume:
180 l/min

Bottle capacity:
20kg

Refrigerant scale
resolution: 5 g

Oil/UV scales
resolution: 1 g

Power supply:
230/1/50

Dimensions:
650 x 550 x 1400mm

Weight:
110 kg



1. Colour backlit display TFT 7"
2. LED for unit state and acoustic Buzzer
3. Folding arm for display protection
4. Door with push-pull opening
5. System of pressurization with nitrogen (optional)
6. Sturdy rear wheels 260mm
7. USB port

8. Printer with header that can be personalised and multiple print option
9. Oil/UV bottles with dual seal quick couplers
10. Hoses coiler and housing for user's manual
11. Easy Service System: easy access for maintenance

Auto Service Station Equipment



Amica Bus

- N3003061

Recovery, recycling, vacuum & charge unit

- Designed and realised for the maintenance of big dimensions A/C systems
- Ideal for public and private transports such as buses, trains, trucks, etc
- The unit is equipped with two separate recovery circuits which guarantee :
 - Recovery rate of 800 g/min
 - Works in unfavourable ambient conditions (45° C)
 - Continuous work (in case of failure in one of the circuits, the other one keeps working)
- Fully automatic unit
- Large backlit LCD and multilingual display
- One key for each function
- 4 electronic scales (Refrigerant - Oil discharge - Oil Charge - UV additive charge)
- Distillation system with automatic control
- "Integrated flushing" function
- "FIRE & GO" function
- Thermal printer with optional multiple print
- Database on extractable Smart Card (can also be updated manually by the operator)
- Data interface with PC by means of Smart Card
- Integrated temperature probe
- Integrated pressure gauge for reading of pressure inside the bottle
- Sturdy ABS cover



Equipped with:

- 2 big capacity filter driers
- Quick couplers
- 2 flexible hoses 3mt
- Handy plastic glove compartment
- Pocket for documents and user's manual at the back
- 2 big wheels on the rear and 2 wheels with brake on the front for easier movement



Amica Data

- N13003066

- Automatic Recovery/Recycling
- Automatic Vacuum/Vacuum Test
- Automatic oil discharge (with automatic scale)
- Automatic oil/UV charge (with automatic scale)
- Automatic refrigerant Charge
- Automatic personalised cycle (recovery vacuum-charge)
- Flushing cycle
- Fully automatic unit
- Database that can be updated
- New multilingual display
- Compressor with High Recovery Performance system that can recover more than 95% of the refrigerant in the A/C system
- Quantification of the recovered refrigerant
- Optional printer
- Possibility to personalise the print report (5 lines)
- Possibility to type the car plate
- Automatic alarm for service: the unit advises when you have to replace filters and change the vacuum pump oil
- Sound signal when the function is over



Refrigerant: R134a

Recovery rate: 300 g/min

Pump swept volume:
90 l/min

Refrigerant scale
resolution: 5 g

Oil/UV scales resolution:
1 g

Storage temperature:
-10 ÷ +50 °C

Working ambient
temperature: 0 ÷ 40 °C

Power supply: 230/1/50

Connections: 3/8 SAE

Code: N13003066

Mode: AMICA-DATA

Dimensions:
510 x 600 x 1110mm

Weight: 110 kg



Auto Service Station Equipment



Piccola Data

- N13003062

The smallest, fully automatic unit on the market

- Automatic Recovery/Recycling
- Automatic Vacuum/Vacuum Test
- Automatic oil discharge (with automatic scale)
- Automatic oil/UV charge (with automatic scale)
- Automatic refrigerant Charge
- Automatic personalised cycle (recovery-vacuum charge)
- Flushing cycle
- Database that can be updated
- New multilingual display
- Compressor with High Recovery Performance system that can recover more than 95% of the refrigerant in the A/C system
- Quantification of the recovered refrigerant
- Optional printer
- Possibility to personalize the print report (5 lines)
- Possibility to type the car plate
- Automatic alarm for service: the unit advises when you have to replace filters and change the vacuum pump oil
- Sound signal when the function is over

Refrigerant: R134a
 Recovery rate: 300 g/min
 Pump swept volume: 90 l/min
 Refrigerant scale resolution: 5 g
 Oil/UV scales resolution: 1 g
 Storage temperature: -10 ÷ +50 °C
 Working ambient temperature: 0 ÷ 40 °C
 Power supply: 230/1/50
 Connections: 3/8 SAE
 Bottle capacity: 7 kg
 Code: N13003062
 Mode: PICCOLA-DATA
 Dimensions: 500 x 450 x 900mm
 Weight: 55 kg



Piccola Easy

- N13003037

Semi-automatic unit for recovery, recycling, vacuum & charge recovery

- Manual Vacuum
- Manual Oil discharge
- Manual Oil charge
- Automatic Refrigerant charge
- Allows refrigerant recovery, circuit evacuation, Additive or lubricant injection, refrigerant charge and Operating pressure test
- Small size for transport on small vehicles
- Refrigerant charge controller by a programming Module and electronic scales
- Compressor with High Recovery Performance system that can recover more than 95% of the refrigerant in the A/C system
- Programmable charging quantity and automatic stop of the unit at the end of the function
- Sturdy ABS cover

Refrigerant: R134a
 Recovery rate: 300 g/min
 Pump swept volume: 46 l/min
 Bottle capacity: 7 kg
 Code: N13003037
 Model: PICCOLA-EASY
 Dimensions: 500 x 450 x 900mm
 Weight : 55 kg





Clima 42D-Fully Automatic Vacuum & Charging Station - N015001

Automatic sequence of vacuum, vacuum test and charging functions without the presence of the operator.

- Small in dimensions and easy to carry
- Dual stage vacuum pump with 42lt/min



Eazy Rec 120-Gas Recovery Unit - N011015R

Portable recovery unit for refrigerant . Up to 50kg/h liquid. Weight 17kg.



Appion G5 Twin Refrigerant Recovery Unit - N050003

Twin Cylinders and Twin Condensers for ultra fast recovery. Weight 11kg.



Clima 90D-Fully Automatic Vacuum & Charging Station - N016001

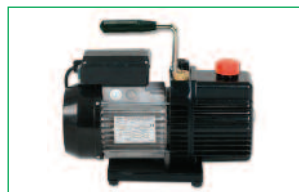
Automatic sequence of vacuum, vacuum test and charging functions without the presence of the operator.

- Small in dimensions and easy to carry
- Dual stage vacuum pump with 90lt/min



Caresaver Recovery Unit - N050002

Liquid and vapour recovery with automatic changeover. All refrigerants inc. hydrocarbons



42 litre Two Stage Vacuum Pump - N012016

Absolutely reliable and professional high vacuum pump. 1.5 CFM.

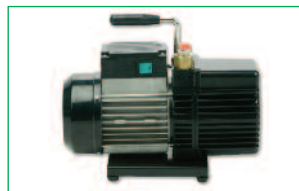


Vacuum & Charging Station - N011072

Vacuum and charging station.

Portable vacuum and charging SP station with 2kg charge cylinder

42 litre vacuum pump



90 litre Two Stage Vacuum Pump - N012020

Absolutely reliable and professional high vacuum pump. 3 CFM.



Electronic Scale - N013006

Max weight capacity: 50kg



2KG Charging Cylinder - N011015

Graduated scale in grams, for different pressures for any type of refrigerant

Pressure gauge allows precise refrigerant pressure reading

Pirex level indicator for a good reading of the refrigerant quantity in the cylinder



Ultrasonic Detector - N02USX1

A valuable addition to every engineer's diagnostic equipment, the USX-1 has a wide range of diagnostic uses.

Detects leak/noise before you hear it



Tools & Equipment



CLT 1 - Clutch Less Compressor Tester - N063001

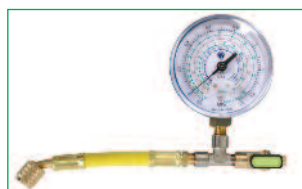
CLT1 Hand tool is a tool for testing Clutch less compressors that are externally controlled.

Includes universal connecting wires.



10 Bar OFN Regulator - N062018

10 Bar regulator used with OFN cylinders for pressure testing for car AC up to 150 psi.



Oxygen Free Nitrogen Hose with Gauge - N015003

Flexible hose - Ø80 gauge, class 1.0. Working pressure up to 48 bar.



10 litre OFN Kit (oxygen free nitrogen)

Consisting of:

NOFN10

10 litre bottle of oxygen free nitrogen

N062019

10 bar OFN regulator kit with hose and low side coupler



OFN Kit Compact Oxygen Free Nitrogen Kit - N017008

Suitable for:

- Testing for leaks in pressure of HVAC & A/C systems
- Flushing of HVAC & A/C systems
- Fluxing during soldering in HVAC & A/C systems



OFN 950 Refill Cylinder - N011060

OFN 950 Refill cylinder for N017008.



10 Bar Regulator/Hose /Low Side Coupler - N062019

Used for pressure testing for car air conditioning up to 150 psi.



OFN Trolley - N064444

Trolley for easy movement of 10 litre OFN cylinders

With security chain to keep cylinder secure whilst moving



OFN Regulator HD - N012018

Inlet pressure 200bar.
Working pressure 1 to 96 bar.



Refrigerant Cylinder Heater belt with thermostat - N019007

Heater with thermostat for refrigerant cylinders.

Tools & Equipment



D-Tek Select Sniffer - N063002

Ultra high sensitivity, 3gm/yr
Equally sensitive to all gasses
R22, R410a, R134a and all
CFC, HCFC's and HFC's
rechargeable NIHM power
stick
Will not react with airflow
or smoke
SAE, J1627, J2791



2 Way Manifold Kit - N011106

2-way manifold with dry
gauge Ø80 cl.1.6 for R22-
R134a-R404A-R407C
complete kit with 3x hoses
and case



Tek-Mate Sniffer - N063003

Operable leak detector
With proven heated diode
sensor technology
7gm/yr min sensitivity
SAE J1627



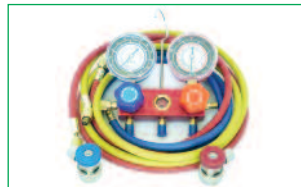
2 Way Manifold Kit - N011101

2-Way manifold with dry
gauge Ø80 cl.1.6 for R410
complete kit with 3x hoses
and case



Leaktronic-2 Sniffer - N063004

Detects leaks as small as
1.5gm/yr
Unique numeric leak size
indicator
SAE, J1627, J2791



2 Way Manifold Kit R134a - N062021

Two way R134a Manifold Kit
with couplers and hoses



Pack of 3 150cm Charge Hoses - N013GYSA

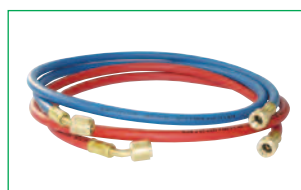
Pack of three 1/4" sae x
150cm hoses

Single hoses are available
1/4" sae x 150cm hoses

Yellow - N103GYSAY

Red - N103GYSAR

Blue - N103GYSAB



Charge Hose - N017001

Blue 3/8" 180cm hose

- N017002

Red 3/8" 180cm hose



FOX-100 - N011001

Max operating pressure 56bar
Accuracy better than '1%
More than 50 refrigerants
Possibility to update with new
gases
Type K temperature probes
3m cable
4 ways manifold piston type
Sight glass
High quality ceramic pressure
sensors
Range -0.99 +49.90bar



Tools & Equipment



2 Way Manifold - N012041

2-way manifold with pressure gauges Ø80 Class 1.6 "Pulse-Free" for r134a, r404a, r407c, r507



4 Way Manifold - N014049

4-way manifold with pressure gauges Ø80 Class 1.6 "Pulse-Free" for r134a, r404a, r407c, r507



Coupler - N022014

R134a service coupler low side supplied with 1/4" SAE and M14 fittings



Coupler - N022015

R134a service coupler high side supplied with 1/4" SAE and M14 fittings



3/8 Coupler - N011031L

3/8" Coupler



3/8 Coupler - N011032H

3/8" Coupler



Quick Coupler - N022164H

Right angle R134a service coupler high side supplied with 1/4" SAE



Quick Coupler - N022164L

Right angle R134a service coupler low side supplied with 1/4" SAE



Quick Coupler - N022165H

Straight R134a service coupler high side supplied with 1/4" SAE



Quick Coupler - N022165L

Straight R134a service coupler low side supplied with 1/4" SAE



BMW Coupler - N022017BM

R134a high side service pro coupler high quality and new design for BMW



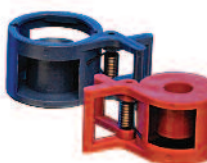
Renault Adapter - N061211

This adapter is used to change the high side to the low side for cars with only one adapter like Renault



Springlock - N022246

These tools provide the only means of separating spring lock air conditioning refrigerant pressure lines



GM Spring Lock - N022247

These tools provide the only means of separating spring lock air conditioning refrigerant pressure lines



VW Spring Lock - N022248

These tools provide the only means of separating spring lock air conditioning refrigerant pressure lines



Toyota Spring Lock - N022249

These tools provide the only means of separating spring lock air conditioning refrigerant pressure lines

Tools & Equipment



**Infra Red Thermometer
- N022243**

Measures surface temperature of an object without contact.

Broad temperature range for a wide range of uses, including HV AC&R, plumbing & Automotive.

Temp range -20°C to +500°C



**Hydraulic Crimper
- N018027**

Crimping modular system especially designed and made to answer the needs of professional technicians for crimping a/c & r hoses of cars, trucks, off-road, farm machines and boats



**Thermometer
- N011033**

EWTL 300 digital Thermometer lcd measuring range -40 C to +50 C



**Thermometer
- N022242**

Displays temperature humidity and time with comfort indicator



**Ratchet Tube Bender
- N013030**

Ratchet tube bender for OD 3/8" - 1/2" - 5/8" - 3/4" - 7/8"



**Thermometer
- N011031**

Measuring range -50° ÷ +256°C Probe 96 mm.



**Thermometer
- N022241**

Professional product for A/C & R, food, catering, etc. Temperature: -50°C +300°C



**Multi Size Tube Bender
- N051056AL**

For 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8 OD AF

- N051056ML

For 6, 8, 10, 12, 16, 19, 22 OD MM



**Thermometer
- N022240**

Long Stainless Steel probe Temperature: -50°C +300°C



**UNF Thread Repair
- N022210**

Identifies thread size

Repairs & re-conditions damaged fittings



**Mirrors
- N022060**

Robust telescopic handle extends to approx 70cm or 28"



**Metric Thread Repair
- N022211**

Identifies thread size

Repairs & re-conditions damaged fittings



Tools & Equipment



Flaring Tool - N011009

Eccentric flaring tool for OD
1/8" - 3/16" - 1/4" - 3/8" -
1/2" - 5/8" - 3/4"



Cutter - N012019

Tube cutter od tubing
1/8" - 5/8"



Cutter - N012017

Tube cutter od tubing
1/8" - 1-1/8"



Filter - N015008

1/4" SAE M * 1/4" SAE M
refrigerant filter



Filter - N015007

Filter for AC service station



Comb Set - N022245

Two combs with one handle,
12 different sizes



Orifice Tube Kit - N022142

Used to remove orifice tube



Valve Core Tool - N022250

Universal valve core tool
removes valve core



Charge Hose - N022138B

R134a reusable hose for
charging refrigerant and any
other additives



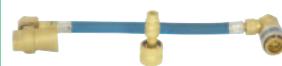
Injector Hose - N022143

Injector Hose 3/8" F x 1/4"
Anti-Blowback (ABBV)



Injector Hose - N022143B

Injector Hose 3/8" F x 1/4"
Anti-Blowback (ABBV) +
r134a couplers 90 deg



Injector Hose - N022156

Omni directional fittings on
each end make access to
tight areas much easier



60ml Inline Injector - N022162

Filled with leak tracer dye or
lubricant and fitted to the
refrigerant charge line.



Hand Twist Injector - N022166

Ideal for use with bottled
leak tracer fluids and/or
lubricant. R134a couplers



Hand Twist Injector - N022166C

Ideal for use with bottled
leak tracer fluids and/or
lubricant.



Spotgun Injector - N018008

Spotgun injector Used to
charge spotgun dye and oil

Tools & Equipment



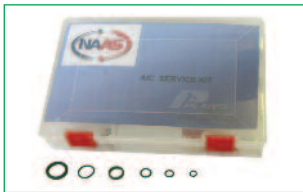
Guard Tool Kit - N022190

Compressor Guard 24
Screen Assortment
Complete Kit with Tools



'O' Rings - N022154A

A comprehensive kit with an
assortment of o-rings, seals,
Schrader valves, adapters,
and valve core tool.



'O' Rings - N045030

Selection of universal 'O'
rings



'O' Rings - N045017

Selection of different
manufacturers fast moving
'OE' 'O' rings.



Orifice Tubes - N045014

Selection of different Orifice
tubes



Service kit - N045024

Selection of valve cores,
service valves and service
caps



Valve Cores - N045015

Selection of Schrader valve
cores



Special Gasket Kit - N045020

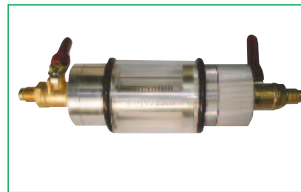
A selection of double and
tube 'o' rings for European
cars



Refrigerant Inspector - N011300

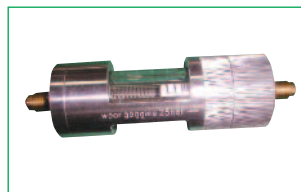
The diagnosis instrument
INSPECTOR enables to check
the "health" of your A/C
system, simply through
connection to the high and
low pressure connection.

The oil and the
oil/refrigerant mixture will
be easily visible inside the
glass cylinder.



Refrigerant Check Tube - N058949

Refrigerant checking tube
with filter & shut-off valve.
Stops damage to recovery
system.



Refrigerant Check Tube - N058949F

Refrigerant checking tube with
filter. Stops damage to
recovery system.



Lovair Auto - N013001

Professional ozone
generator, thanks to its
strong oxidizing power:

- destroys bacteria,
moulds and mites
- dissolves bad smells,
such as petrol, smoke of
cigarette, musty odours,
etc...



8 Sided Service Port - N058002

8 sided service port socket,
low side

8 Sided Service Port - N058003

8 sided service port socket,
high side



Tools & Equipment



Flushing Kit - N022140

One litre flush kit cylinder with flushing gun



Port Converter - N022135L

R134a Low Side port converter Adapter 1/4" Straight



Port Converter - N022135LR

R134a Low Side port converter Adapter 1/4" 90°



Flushing Gun - N050403

Flushing gun for use with N022140 Flushing Kit



Cap - N022134H

R134a high Side Service Port cap - red.
Bag contains 10 caps



Flushing Adapter Kit - N058142

Universal AC flushing adapter kit



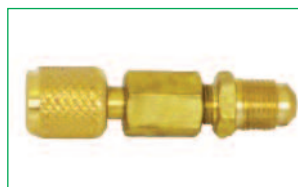
Cap - N022134L

R134a Low Side Service Port cap - blue.
Bag contains 10 caps



Port Converter - N022135H

R134a High Side Adapter 3/16" Straight (for some Japanese cars)



Adaptor - N012001

Straight adaptor 1/4" Female SAE x 5/16" SAE Male



Port Converter - N022135HR

R134a High Side port converter Adapter 3/16" 90° (for some Japanese cars)



Adaptor - N014001

Right angle adapter 5/16" sae female x 1/4" sae male



Port Converter - N022135J

R134a High Side port converter Adapter 1/4" Straight



Adaptor - N015018

3/8"-SAE Female x 1/4" SAE Male adapter



Port Converter - N022135JR

R134a High Side port converter Adapter 1/4" 90°



Adaptor - N022028

Adapter M14 male x 1/4" SAE

Tools & Equipment



**Adapter
- N022034**

1/8" NPT Male x 1/4" SAE Male



**Adapter
- N015017**

1/4" female 3/8 male



**Adapter
- N022041**

1/2" ACME Male x 1/4" SAE Female



**Male Union
- N011016**

3/8" male union



**Adapter
- N022042**

1/2" ACME Female x 1/4" SAE Male



**Adapter
- N012011**

1/4" sae x 1/4" NPT
Suitable for OFN regulator



**Adapter
- N022044**

1/4" Male x 1/4" Female
ABBV Swivel



**Cut Off Valve
- N013101**

1/4"SAE Swivel female x
1/4"SAE male valve



**Adapter
- N022168**

R134a Low Male x 1/4" SAE Female



**Cut Off Valve
- N010001**

1/4"SAE Swivel female x
1/2"-16 ACME male valve



**Adapter
- N015009**

3/4" - 16 x 1/4" male
For refrigerant cylinders



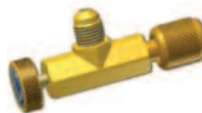
**Cut Off Valve
- N014001**

3/8" Swivel female x 3/8" male



**Adapter
- N015010**

21.8mm - 14 x 1/4" male
For refrigerant cylinders



**Access Valve
- N0149001**

Access Valve 1/4" SAE Female
x 1/4" SAE Male



**Adapter
- N015011**

3/4" - 16 x 3/8" male
For refrigerant cylinders



**Access Valve
- N0159001**

Access Valve 5/16" SAE
Female x 5/16" SAE Male



Tools & Equipment



AirSept Airline Splicer

QUICK, PERMANENT, METAL LINE REPAIR
WITH NO LINE REMOVAL

BACKGROUND:

Damaged A/C, Transmission, Power Steering, Heater, or other metal lines on your vehicle or motorized equipment can cost a lot in downtime, lost productivity, and customer dissatisfaction.

WHY USE THE LINE SPLICE?

Now, AirSept offers a solution – the new Line Splice – that is a permanent repair yet can be done quickly, without line removal and without special tools or adhesive chemicals.

WHAT DOES THE LINE SPLICE DO?

AirSept's Line Splice is an improvement over old, traditional compression fittings thanks to two proprietary innovations that contribute to long service life:

1. A new HNBR Seal Sleeve that dramatically expands the sealing surface area
2. State-of-the-art Anti-Vibration Tension Ring technology that ensures long-term durability in high-vibration use
 - Compensates for out-of-round or other tubing imperfections
 - Leak-free to 2300 psi
 - Install with a wrench

PROBLEM



SOLUTION



ITS AS EASY AS 1, 2, 3

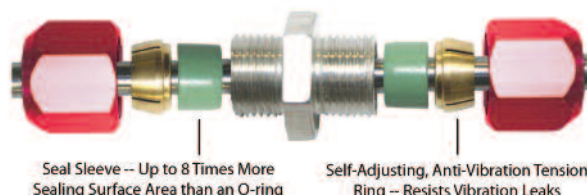
STEP 1: STRING THEM



STEP 2: PUSH TOGETHER



STEP 3: TIGHTEN



Fits Line O.D.		Part Number
1/2"	Line Splice Kit	N076001
3/8"	Line Splice Kit	N076002
5/16"	Line Splice Kit	N076003
5/8"	Line Splice Kit	N076011
3/8" to 5/16"	Reducer Kit	N076004
1/2" to 5/16"	Reducer Kit	N076005
1/2" to 3/8"	Reducer Kit	N076006
10mm	Line Splice Kit	N077010
12mm	Line Splice Kit	N077012
12mm to 10mm	Reducer Kit	N077103

Prevent Downtime. Keep a Multi-Size Kit on Each Vehicle or Jobsite		P/N
Multi-Size	1 Splice plus 1/2", 3/8", and 5/16" components Kit	N076000
10-Pack	2x ea. 5/8" & 5/16" Splice, + 3x ea. 1/2" & 3/8" Line Splice kits	N076020
6-Pack	2x 5/8", 2x 3/8", & 1 ea. 1/2" & 5/16" Line Splice Kits	N076022
4-Pack	1 ea. 5/16", 3/8", 1/2", & 5/8" Line Splice kits	N076024

UV Lamps & Dyes



PRO-SHOT™



Pro-Shot Cartridge System

The Most Effective Cartridge Injection System on the market!

Pre-measured application every time with no guesswork. 64 measured shots from every cartridge with no mess.

All metal construction, smooth operation

One squeeze injects a pre-measured amount of dye, no over injection

Long hose for easy access

A totally clean system, no leaks



Popular 8 oz. cartridge with 64 applications

R12 & R134a

Purge fitting

PRO-SHOT™

The Most Effective Cartridge Injection System on the market!



The X-Citer Pro 1 is so bright...

- **Cordless**
- **Bright**
- **rechargeable**
- **Soft Touch**

X-Citer Pro UV Lamps

The X-Citer Pro 1 is so bright it makes finding leaks fast & easy

The UV Pro 1 uses patented technology to fluoresce even the smallest leaks. The Super-Brite LED with high-tech optics is the brightest in its class.



...it makes finding leaks fast & easy



UV Lamps & Dyes



Pro-Shot Injection System 3 - N130224na

The most precise and accurate injection system on the market.

The Pro-Shot gun measures exactly 1/8oz of dye prior to injection. Eliminates over-injection and ensures 100% return on investment with your dye.

Includes 8oz cartridge of Stay-Brite Universal A/C Dye X-Citer Leak Detection Lamp Dye Cleaner R134a and R12 adapters.

SAE Certified and OEM Approved. Dye Installed Service Stickers



Pro-Shot Injection System 4 - N103227

The most precise and accurate injection system on the market.

The Pro-Shot gun measures exactly 3.7 ml of dye prior to injection. Eliminates over-injection and ensures 100% return on investment with your dye.

Includes 240 ml cartridge of Stay-Brite Universal A/C Dye enough for 64 Vehicles. Apollo 12V 50W Leak Detection Lamp. 12V 50W Leak Detection Lamp. Swivel Head for easy access in tight engine compartments. UV Glasses included.

Dye Cleaner, R134a and R12 adapters. Dye Installed Service Stickers



Easy-Fill Kit - N271461

Serves 14 Vehicles The most cost effective A/C Dye Injector.

Clear Injector hose allows you to see the dye entering the system. Includes Easy-Fill Injector Multi-LED Leak Detection Lamp 14 Stay-Brite Universal A/C Dye refills.

SAE Certified and OEM Approved Dye Installed Service Stickers



Pro-Shot Injection - N130221

Serves 64 Vehicles

SAE Certified and OEM Approved.



ProAir Eco-Brite Pro-Shot - PA7411

64 shot, 237ml

Solvent free



Pro-Shot Injection - N13001

R134a and R12 adapters included Dye Cartridge not included



Easy-fill multi-shot injector - NBSL746

Easy-fill multi-shot injector with R-134a coupler. Use with easy-fill syringes

UV Lamps & Dyes



Easy-Fill 64 Refill - N771460

64 Pack of Stay-Brite Universal A/C Dye refills SAE Certified and OEM Approved



Easy-Fill 32 Shot - N771450

32 Pack of Stay-Brite Universal A/C Dye refills



Easy-Fill 12 Shot - N771440

12 Pack of Stay-Brite Universal A/C Dye refills



ProAir Dye-Out - PA7401

Clean dye marks
237ml



ProAir Eco-Brite - PA7404

Super concentrated, solvent free. 237ml = 32 applications



ProAir Coolant Dye - PA7420

Super concentrated, solvent free. 237ml = 32 applications



ProAir Oil Dye - PA7425

Super concentrated, solvent free. 237ml = 32 applications. Suitable for fuel system, transmission & engine oil



Spotgun AC Dye - N011023

240ml



X-Citer Pro Lamp - NBSL831

X-CITER PRO 1 Super-Brite single LED Rechargeable 220V

Charger included

UV Glasses included



Apollo UV Lamp - NBSL770

Swivel Head for easy access in tight engine compartments

UV Glasses included



Star Brite UV Lamp - NBSL845

Our most popular light!

Powerful LED leak detection lamp with battery & glasses



Supra-LED Platinum - NBSL840

8 LED Battery powered (included) UV Glasses included



UV Glasses - N021102C

UV Stop Safety Glasses Clear



UV Glasses - N021102Y

UV Stop Safety Glasses Yellow



Consumables



PAG 46 Oil - PA7101

Vehicle AC lubricant ISO46
250ml



Vacuum Pump Oil - PA7121

1 Litre



PAG 100 Oil - PA7102

Vehicle AC lubricant ISO100
250ml



Spotgun PAG 46 240ml - N011026

Spotgun PAG 100 240ml
- N011027



PAG 150 Oil - PA7103

Vehicle AC lubricant ISO150
250ml



Spotgun PAG 150 240ml - N011028

Spotgun Ester Oil 100
240ml - N011029



PAG 46 Oil - PA7111

Vehicle AC lubricant ISO46
1 Litre



ProAir Flush - PA7301

1 Litre
Oil base



PAG 100 Oil - PA7112

Vehicle AC lubricant ISO100
1 Litre



ProAir Flush - PA7305

5 Litres
Oil base



PAG 150 Oil - PA7113

Vehicle AC lubricant ISO150
1 Litre



Hybrid Oil - PA7104

Oil used for hybrid
compressor
250ml



Ester 100 Oil - PA7014

250ml

Consumables



Stop Leak - PA7201

Seals small leaks in car AC.
Polymer free
30ml



Retro Pro - N022135B

Retro Pro kit complete with
Charge Hose. Converts from
R12 to R134a



ProAir Interior Deo - PA7211

Interior deodoriser, kills
bacteria
200ml



Tamper Guard - N022150A

Tamper evident seals that
make your work traceable.
Click and lock over the
R134a service ports.



ProAir Evaporator Cleaner & Deo - PA7212

Cleans evaporator &
deodorises. Kills bacteria
400ml



Spray Test - N022172

Leak detector spray 400ml



Gloves - N061001

CE Approved. All rubber
industrial gloves



Blue Grip LL301 Gloves - N061002

Unique etched surface
provides a non-slip grip even
on hard-to-grasp materials



Fluoroelastomer Gloves - N061003

Fluonit 468 combines Nitrile
layer and several outer layers
of Fluoroelastomer to provide
excellent chemical protection



Vented Safety Goggles - N061004

Safety glasses with built-in
air vents



Refrigerants



R134a Refrigerant - NR134A125

NR134A9 - 9KG
NR134A12 - 12kg
NR134A125 - 12.5kg
NR134A136 - 13.6kg



R410a Refrigerant - NR410A

Cylinder - 9kg



R404a Refrigerant - NR404A

Cylinder - 9kg



Reclaim Bottle 12ltr - NRB001

Reclaim Cylinders double valve, double port, 12kg (exchange)



R407c Refrigerant - NR407C

Cylinder - 9kg



10 Litre OFN Bottle - NOFN10

OFN (oxygen free nitrogen)
10 litre cylinder (exchange)



To cater for all our clients we have three training options, to enable you to select the one that suits your business needs.

On site support training

- Experienced Air conditioning Professional to provide training.
- Convenience of your own location.
- Trainees get an opportunity to learn in a familiar environment.
- This option is most suited to groups (more than 1 person).



Training at our location in Leicester

- Experienced Air conditioning Professional to provide training.
- Class room environment and practical application.
- Opportunity to network with other A/C professionals.
- Qualified Air conditioning Tutor to provide training to achieve an accredited recognised qualification.
- This option should only be undertaken after the successful completion of either On site or Classroom training.

NAAS Training Courses

With new stringent laws coming into force regarding the use and handling of Refrigerants. It is of paramount important that engineers have the right certificates to handle refrigerant and the skill to understand the fundamentals of air-conditioning, health & safety, servicing and diagnosing.

City & Guilds and the Air-Conditioning and Refrigeration Industry Board to provide evidence that candidates have competence to handle refrigerants have developed this scheme. It is suitable for a wide range of candidates, regardless of age or mode of training.

Naas Ltd is a fully certified City & Guilds training centre and offer the following courses:

5101-04-301	Level 3 Certificates	Mobile Air Conditioning Systems Refrigerant handling for Mobile Air Conditioning (2 day)
5101-04-302	Level 3 Certificates	Mobile Air Conditioning Systems Testing and servicing Mobile Air Conditioning (2 day)
5101-04-303	Level 3 Certificates	Mobile Air Conditioning Systems Advanced Diagnostics for Mobile Air Conditioning (5 day)
Naas Introduction to Auto AC course		1 day

*Course dates and prices are available on request





Training

Compressor

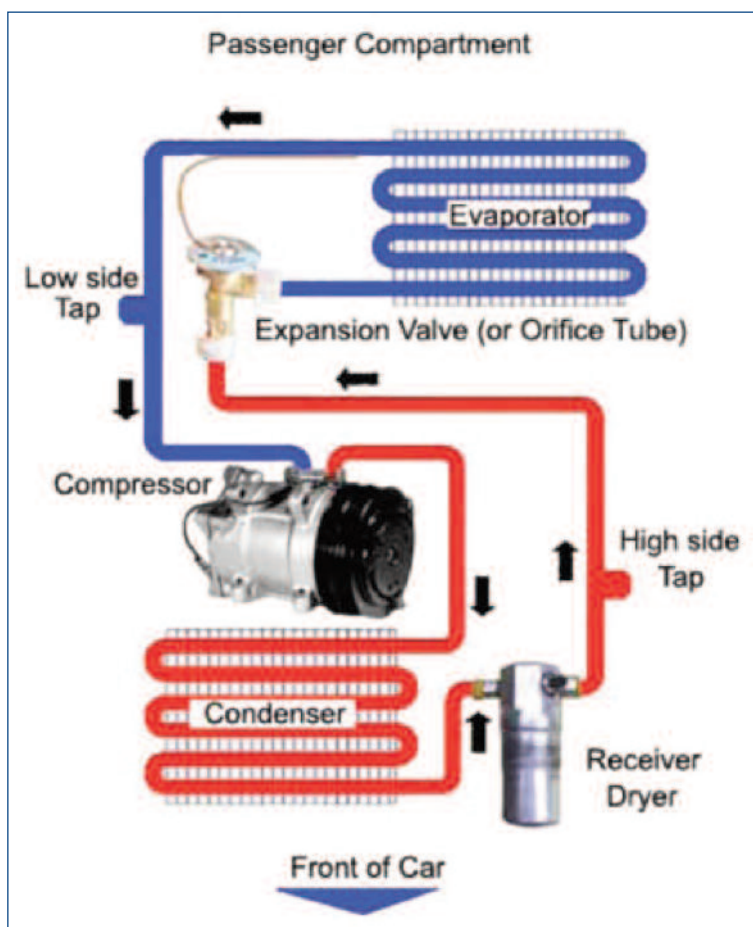
The compressor is the heart of the AC system. It compresses and circulates the refrigerant around the system. Low pressure refrigerant is drawn into one side of the pump, and expelled as a high pressure vapour. During this process, the temperature of the vapour rises significantly. The compressor is usually driven by a belt attached to either the engine directly, or the alternator.

Condenser

Once compressed, the refrigerant vapour is at a high temperature, and therefore not too useful for cooling the car. The condenser changes the vapour into a liquid, a reaction which causes a large drop in temperature. The condenser is like the radiator on the engine, and is normally located at the front of the engine bay.

Evaporator

The evaporator receives the cold refrigerant, and uses it to cool the air in the cabin of the car. It is usually located in the heater air intake. Some vehicles have more than one evaporator to serve different areas inside the cabin.



Expansion Device

The expansion device comes in many forms. It can be a brass internally or externally equalised valve, a block type valve or an orifice tube (the latter being part of an accumulator type air conditioning system). Expansion Devices have an inlet and an outlet which separates the high side of the system from the low side. A small restriction in the valve allows only a small amount of refrigerant to pass through it into the Evaporator.

The amount of refrigerant passing through the valve depends on the Evaporator temperature. The most common reasons for failure are contamination, moisture and lack of regular servicing.

Receiver Drier

This is where some AC systems differ. In an expansion valve system, the drier is known as a receiver, and in a fixed-orifice tube system, it is an accumulator. A receiver removes impurities from the system, absorbs moisture, and ensures that only liquid refrigerant reaches the expansion valve. In contrast, an ac-cumulator prevents liquid refrigerant from entering the compressor.

keeping your customers cool

keeping your customers cool





NAAS Ltd supply a wide range of
Air Conditioning diagnostic tools & consumables

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